elentek
Electronic | Engineering | Technology

USER GUIDE

UNIT ALARM - User Manual

ELECTRICAL PANEL FOR ALARM SIGNALS

ISO 9001

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1. SYMBOLS AND WARNINGS

This operation and maintenance manual uses the symbols outlined below to indicate risks that may arise in the event of failure to observe the instructions supplied.

This symbol corresponds to an immediate risk of death or serious physical injury or material damage. When present, take great care to observe warnings and instructions.

This symbol corresponds to a possible risk of death or serious physical injury or material damage. Take care.

Failure to observe the instructions in the presence of this symbol may lead to malfunctions and damage to equipment, with possible consequent injuries to the operator.

Before performing any work on the electrical panel or system, shut off the electrical power supply.

The electrical panel must be connected by a qualified electrician in observance of the relevant electrical standards.

Before any other operation, ensure the installation is connected to an efficient earthing system.

2. GENERAL INFORMATION

This manual must always accompany the relevant equipment and be conserved in an accessible location for consultation by qualified technicians assigned for operation and maintenance of the system.

The installer/user is strongly recommended to carefully read all instructions and information in this manual before using the product, in order to avoid damage or improper use of the unit, which would also render the warranty null and void.

Before operating the equipment, carefully read the manual and follow all instructions herein.

The information and instructions in this manual refer to the standard use of this product; in the event of special circumstances, functions or applications not described in this document, contact our service centre for assistance.

If technical assistance or spare parts are required, when contacting the manufacturer always specify the identification code of the model and construction number as stated on the data plate.

Our service centre is available for any requirement or clarification.

The electrical equipment supplied must be installed indoors in a well-ventilated environment, within a temperature range of -5° to +40°C.

N.B. the information provided in this manual is subject to modifications without notice. The manufacturer shall not be held liable for any damage caused in relation to the use of these instructions as they are to be considered guideline only. Note that failure to observe the instructions provided in this manual may cause physical injury or damage to objects.

In any event all local and/or current legislation must be observed at all times.

3. WARNINGS

On receipt of the goods, perform an inspection immediately to ensure that the equipment has not been damaged during transport.

If defects or missing material are found, the client should promptly notify, and in any event within 5 days of receiving the goods, our retailer, or in the event of direct purchases, the Elentek service centre.

The UNIT ALARM electrical panel must be used exclusively for the purpose and function as specified in design. Any other application or use is to be considered improper and therefore hazardous.

All UNIT ALARM panel installation and maintenance operations must be performed by a specialised technician who is fully aware of the relevant current safety standards.

No parts of the panel must be disassembled without the official authorisation of Elentek: any tampering with or modifications to the unit will render all terms of the warranty null and void.

Always disconnect the unit from the power supply before maintenance or cleaning.

If UNIT ALARM is not used for prolonged periods, store the product in a clean and safe location protected against atmospheric agents and the potential risk of dropping/falling.

In the event of a fire in the place of installation or the surrounding area, avoid the use of water jets and use the appropriate extinguishing equipment and means (powder, foam, carbon dioxide).

Install the equipment far from heat sources and in a dry and sheltered location in observance of the stated protection rating (IP).

The installation of a safety device is recommended to protect the panel power line in compliance with current electrical standards.

Elentek declines all liability in the event of the following:

- Incorrect installation;
- Use by personnel not adequately trained in the correct use of the panel;
- Serious failure to perform scheduled maintenance;
- Use of non-original spare parts or parts not specific to the model;
- Unauthorised modifications or interventions;
- Partial or total failure to observe instructions;

4. GENERAL DESCRIPTION

- Power supply 1 ~ 50/60Hz 230V±10%;
- 1 Normally open input for alarm control from voltage-free contacts (NO);
- 1 Normally closed input for alarm control from voltage-free contacts (NC);
- Acoustic alarm activation button;
- Acoustic alarm shutoff button;
- Internal selector for selection of automatic or manual alarm reset;
- Internal selector for activation of automatic siren shutoff timer;
- Trimmer for automatic shutdown delay setting;
- Internal sealed battery 12Vdc 1,2Ah;
- Green led: Power mains ON;
- Red alarm led;
- Red led indicating siren shut-off;
- Flashing red light 12Vdc (mod. UNIT ALARM 2);
- Acoustic alarm 90dB 12Vdc;
- Alarm output (NO-NC-COM resistive load - 5A / 250V);
- Box in ABS, IP55;
- Ambient temperature: -5/+40 °C;
- Relative humidity 50% at 40 °C (condensate free).

5. INSTALLATION

Ensure that the mains power supply specifications correspond to the voltage specified on the data plate of the electrical panel, then make the earthing connection before all other connections.

1~230V ± 10% 50/60Hz

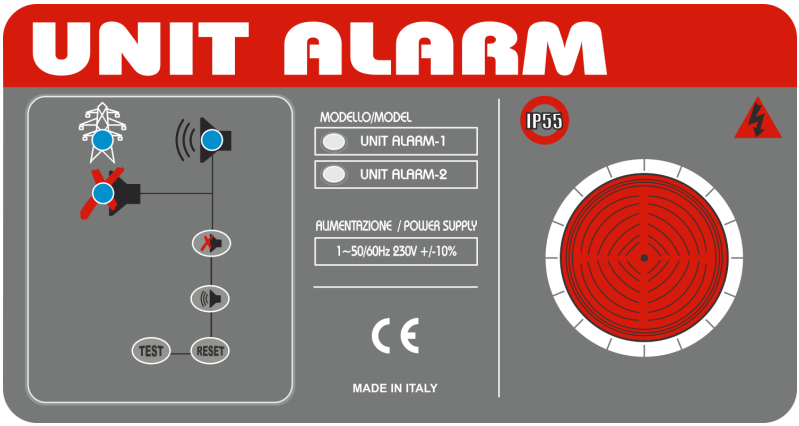
The power line must be protected by a residual current circuit breaker.

Tighten the electrical cables on the relative terminals using a suitable tool correctly sized to avoid the risk of damage to the fixing screws. Take care if using an electric screwdriver.

The UNIT ALARM electrical panel is designed for wall-mounting using screws and plugs in the pre-drilled holes at the corners of the enclosure, or by means of brackets when present.

6. PANNELLO DI CONTROLLO

The UNIT ALARM electrical panel has been designed to signal alarms activated via external contacts.



KEY TO LUMINOUS INDICATORS AND COMMANDS

Green led: mains power ON

Red led: acoustic alarm ON

Red led: acoustic alarm OFF

Button: acoustic alarm ON

Button: acoustic alarm OFF

Alarm reset button

Manual alarm test button

7. GENERAL OPERATION NOTES

The UNIT ALARM panel is a unit applicable on any system that requires alarm signals also in the event of a power failure.

When the 230V power supply is active, the led "*Mains Power ON*" lights up. In this condition, the battery inside the UNIT ALARM panel is kept charged automatically, with the charge controlled according to the battery level.

Periodic testing is recommended to ensure correct operation of the panel. This is performed by pressing and holding the **TEST** button to briefly activate the acoustic signal and (if present) the visual signal.

When the NC and NO inputs change status (NC opens and NO closes) the acoustic alarm trips, together (if present) with the visual alarm (flashing red light).

It is possible to set the UNIT ALARM so that the siren shuts off at the end of the alarm condition (ALARM RESTORE jumper wired in) or that the acoustic alarm continues until the operator intervenes, who may either press the RESET button or shut off only the buzzer and the flashing light signals by pressing the MUTE button, in which case the red led remains lit to indicate that the fault has not yet been eliminated.

An internal trimmer can be set within a range of 25 to 120 seconds (DELAY TIME trimmer) for programmed shutoff of the alarm signals, enabled by removing the ON/OFF TIMER jumper.

8. SETTINGS AND ADJUSTMENTS

ALARM RESTORE Jumper (for automatic reset) active: the acoustic alarm and flashing light (mod. UNIT ALARM 2) are deactivated when the cause of the alarm is eliminated.

If the jumper is not wired in, the alarm condition remains until it is manually reset by means of the **RESET button**.

ON/OFF TIMER Jumper (to disable the alarm timer) not active: the siren and flashing light (mod. UNIT ALARM 2) continue to operate until the alarm condition is eliminated.

If the jumper is wired in, the alarm condition remains until it is manually reset by means of the **RESET button**.

The ***DELAY TIME*** trimmer enables the user to set the duration (from 20" to 120") after which the acoustic and visual alarm signals are to be shut off (if the flashing light is installed) automatically.

In any event the siren can be shut off, together with the flashing light (mod. UNIT ALARM 2), by pressing **MUTE**.

To restore operation of the siren and flashing light, press **ACTIVATE ACOUSTIC ALARM**.

If the siren and flashing light are shut off manually by pressing **MUTE** but the alarm condition persists, the cumulative alarm output continues to indicate the fault.

9. WIRING DIAGRAM

DANGER

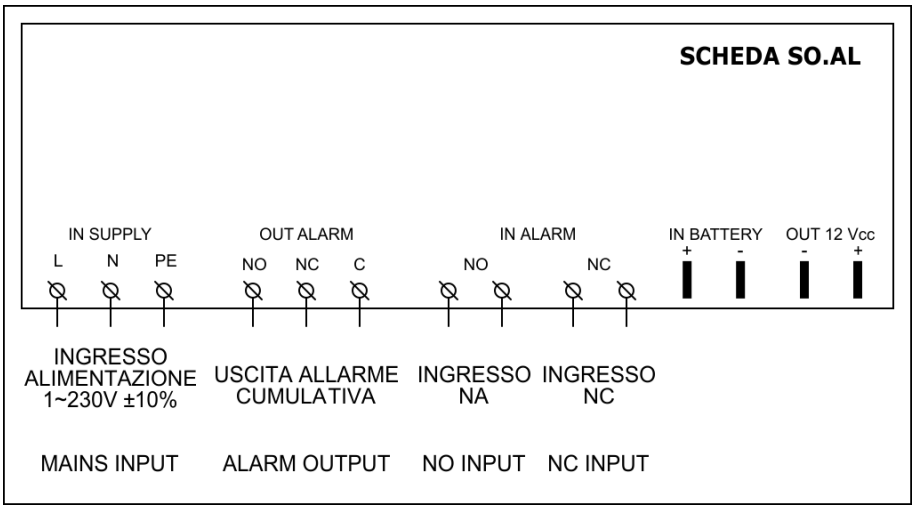
CAUTION

Make the earthing connection before all other connections.

Ensure that the mains voltage is suitable for panel with reference to the specifications on the data plate (1~ 230V ±10% 50/60 Hz).

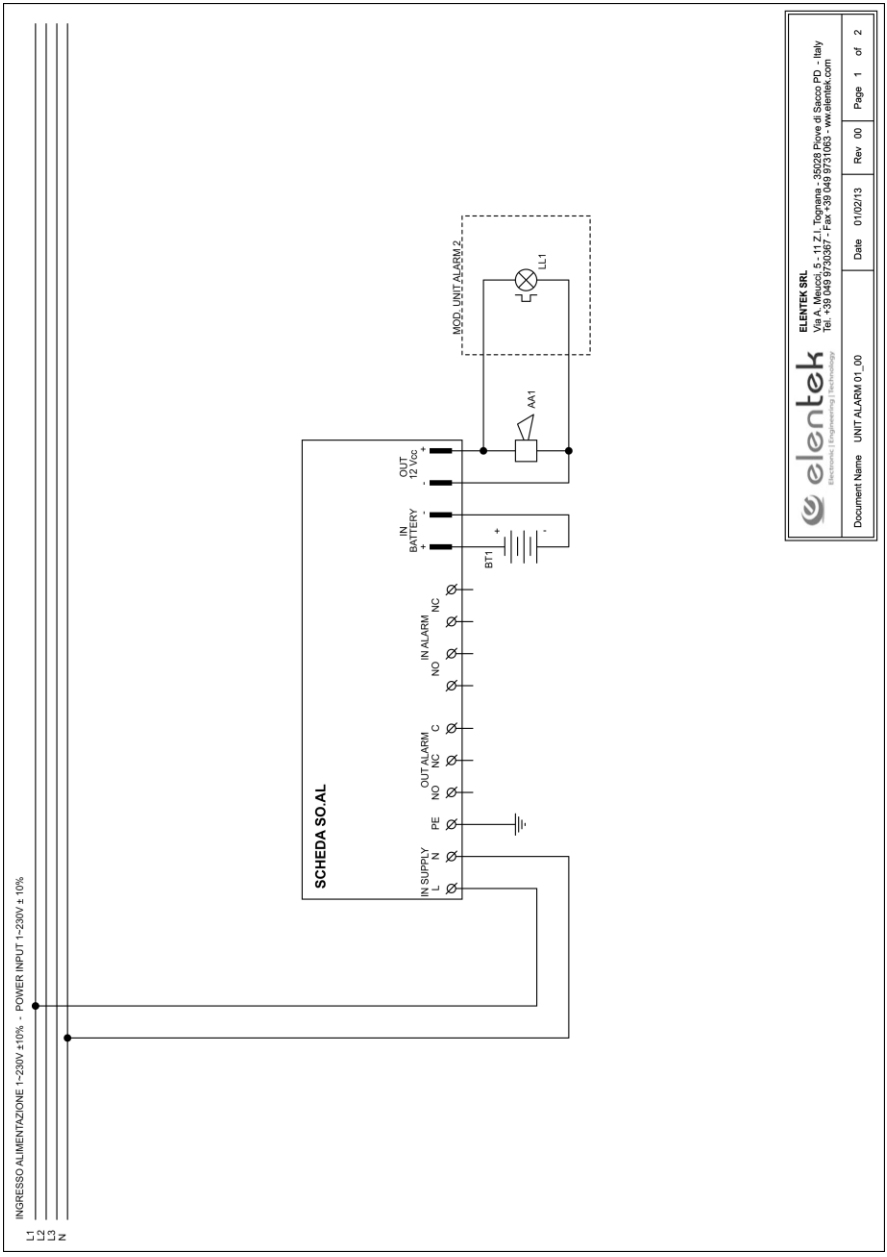
If visible, cables must be suitably protected. The power line must be protected with a residual current circuit breaker sized according to current electrical standards.

Connect the power cable to ther terminal board “IN SUPPLY” observing the positions L (line), N (neutral) and PE (earth).



The NO and NC terminals accept only voltage-free contacts, as alarm outputs from other panels, floats, pressure switches etc.

10. STANDARD CIRCUIT DIAGRAM



11. TROUBLESHOOTING

	PROBLEM	CHECKS / SOLUTIONS
1.	**The panel is powered up but no alarm signals are received.**	▪ Ensure that the alarm input is connected correctly on the "ALARM IN" terminal board.
2.	**The panel is always set to alarm status.**	▪ Ensure that a jumper is wired in on the alarm input "NC" if only the NO input is used.
3.	**The flashing light does not work on the model UNIT ALARM 2.**	▪ Ensure correct connection of the terminal board under the flashing light. ▪ Ensure correct insertion of the bulb in the flashing light (if present).
4.	**The panel does not work during a power failure.**	▪ Check the buffer battery connection (observe positive and negative poles).
5.	**No led lights up on the control panel.**	▪ Ensure that the FLAT connection with the board inside the panel is inserted correctly. ▪ On the panel input, check that the voltage 230V~ is present between the mains input terminals "L" and "N".

12. GENERAL CONDITIONS

12.1 Warranty

The product warranty is subject to the general terms of sale of the company Elentek S.r.l.

Acknowledgement of the warranty depends on the strict and proven observance of the operating instructions in this booklet and application of the correct mechanical, hydraulic and electro-technical practices.

All products are covered by a warranty valid for 12 months, which covers all construction defects of our products and includes the replacement/repairs of defective parts.

The warranty will not be deemed valid in the event of:

- tampering with the panel (modifications without prior authorisation);
- faults due to lack of or inadequate protection and/or connection errors;
- faults caused by exceeding data plate specifications;
- normal wear and tear;
- failure by installation personnel to observe the specified operating procedures;
- accidental causes, natural disasters of any kind, such as fires, flooding, water or lightning;

The defective material must be delivered carriage paid to Elentek S.r.l., who reserves the right to final judgement of the cause of the said defects.

The Warranty applies exclusively to restoring the original product characteristics and does not cover material damage or physical injury.

12.2 Maintenance

UNIT ALARM does not require routine maintenance provided that it is used within the operating limits and in observance of the instructions in this manual.

Special maintenance or repairs must be performed exclusively by authorised service centres.

In the event of repairs, only original spare parts must be used.

The manufacturer declines all liability for material damage or injury to persons or animals caused by maintenance interventions performed by unauthorised personnel or using non-original materials.

12.3 Disposal

In the event of disassembly and scrapping, strictly observe local legislation regarding pollution.

Waste disposal according to material categories is recommended.

13. DECLARATION OF CONFORMITY

ELENTEK Srl Unipersonale

Via A. Meucci, 5/11

35028 Piove di Sacco (PD) ITALIA

hereby declares, under its sole responsibility, that the machine:

- Trademark ELENTEK
- UNIT ALARM series

complies with the provisions of the following EU directives and subsequent amendments:

- Machinery 2006/42/EC
- European Directive 2006/95/EC
- Electromagnetic Compatibility 2004/108/EC and subsequent amendments, in compliance with the following technical standards:
  - EN 61439
  - EN 55014-1
  - EN 61000-3-2
  - EN 61000-3-3

Piove di Sacco, 01.04.2014

LEGAL REPRESENTATIVE

NOTE

NOTE

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